
BICYCLE MOBILE HAMS OF AMERICA

Volume 4, Number 1

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Jan/Feb/Mar 1993

EDITOR'S COLUMN

BMHA Members in the News

If you keep a close watch on the ham stagazines and other publications you may have noticed:

> QST, November '92, page 98. A photo and story about Tim Palange, KD4WZ, and his 7,000-mile solo bike trek from Washington state to Florids, and how he made a special stop at ARRL hendquarters in Novington, CT.

>> Worldwalls, Ducomber '92, page 22. A photo and reprint of the article titled 'Hamming on the Open Road' by Russ Dwarsbuis, KBSU. In this piace, which first appeared in the Oct. '91 insur of the BMHA NewsLatter, Russ tells about his 3,000-mile memors bike trip, his advantures with operating CW while underway, and his solutions to electronic and mechanical problems.

>> Badger State Smoke Signale, November '92, page 9. Titled "QRP Bicycle-to-Bicycle QSO", this is an account of the pranibly "Guinness record" bicycle-to-bicycle QRP 20-meter QSO between mambers Elroy Shalley, WB9GIE, in Wisconsis and Ned Mountain, WC4X, in Georgia. So that you can take its all the details, we plus to reprint this thrilling story in the next insue of the BMHA NewsLetter.

>> Milwanker Magazine, October '92, page 24. A photo and story on Ekroy Shelley, WB9GIE, and his hobby of transmitting to brother hams from his acciout 3-speed Huffy.

World-Record Bike Trek thru Africa

BMHA members Dan and Steve Buettner at this writing are leading a 5-man cycling expedition that started in November on a 10,000-mile trek that covers the length of Africa. (Note: we don't know their cell signs because they got their licenses just before the trip.) The Africa Trek Cycling Expedition is besied by Dan Buettner, a famous endorance cyclist, who has cycled around the world through the Soviet Union and holds the record for biking from Alaska to Argentina. This will be an attempt at making a first-ever bike crossing of the African continent. The toughest part of the miste-month, 55-country expedition is expected to be the granting two menths they'll spend pedaling across the Subsets Desert.

Their communications setup: Every Translay at soon US Control time (2000 UTC), they'll unite radio or telephone contact with Reso Faber, ZS6OF, of Bolzsburg, South Africa, who will then relay messages to their ham contacts here in the US. This will be on the [5-meter band at 21,390 MHz, which is a frequency used by missionaries to make contact and then

move to a mee'by frequency. You renders are asked to munitor this weekly QSO and, if necessary, copy any manages that are not received by the stateside has contacts. Any such manages should be telephoned collect to the Africa Trak coordinator, Joselyn Hale, in Minnespolis (612) 349-6606. Our best wishes for a safe and successful journey to our fellow bikin-haster Dan and Steve.

-Harriey Alley, NAOA, Editor

UPCOMING EVENTS

Dayton HamVention - April 23-25

The BMHA fourth annual Forces at the Dayton Hard-Vertice is not for Senday, April 25th at 9:30 am. We're dickering right now for a larger more confortable room than we had last year. Details will appear in the next issue ~ including info on the Forum program, extra cychall meetings, and 2MHA's secret simplex frequency. For that wonderful workened on your calendar ~ right now! ~Bd.

Second Annual BMHA Bike Tour

1992 witnessed the first BMHA bike tour to be held in conjunction with the Dayton RamVention (see the July '92 NewsLoter). Those attending the ride had an enjoyable time, with planning for the Second Annual BMHA Bike Tour beginning soon afterwards. The date for this year's ride is Saturday April 24, 1993. Heats for the event are again Jim Gumbert, NCSY, and Ken Noffringer, AESI.

Tentative plans cell for both 10- and 30-ails risks on the runds in and around the Tipp City area, which is just 10 miles north of the home of Hausventine, Dayson's Hars Arone. The longer roots will pass through three Ohio counties and four VHF Century Club grid against, to bring your transcrivers — and of course we'll be communicating bicyalmobile within the group as we padal along. A picnic at the Tipp City Park will follow the risks.

These interested in participating in the ride are saled to seed a SASE (including a count of participants) by March 15 to Ken Nothinger at 43 Kent Road, Tipp City, OH 45271. The \$455 is important for forecasting facility and food requirements, as well as providing a conventiont means to convey specific information (maps, talk-in frequency, etc.) to participants a few weeks before the ride. Any suggestions or questions concerning the ride are welcomed and may be naclesed with the SASE. Additional datain will appear in the April '93 NewsLatter.

— Jim Gumbert, MCRF Een Neffsinger, AERI 43 Kept Road Tipp City, OH 45371

PUBLIC SERVICE

They Walked, I Pedaled OR....

The Case of the Fragile Antenna

The annual MS Walk in pearly Flichburg, MA was fact approaching, and I was still experimenting with a J-pole ducien that I broud to floish and bring with me on a later bicycle tour around Cape Cod and Martha's Vineyard. The coordinator of the ham communications for the Walk, Churlis, WNIE, and I had talked about my various cycling activities many times before, including my bicycle mobiling. Here I new a chance to came again participate in the communications for the Walk, and at the same time field-test my I-pole concept before my big trip. I offered my services and my hicycle, and both were accepted?

My J-pole was a very crude design that was not originally made to go on my biles. It was made from aluminum ground wire, cut the right length and fed at the proper point. I originally built it for shack now - just to teach myself how a J-pole works. However, it worked so well that I wanted to see if I could mount it mein an my bike. With a hitle creative jucy-rigging, I amneged to mount it in my rear reflector bracket on my rack, and run the coan up to my handlober log, where my IC-2AT and speaker-mike would sit. I had taken a couple of test rides and had gotten favorable signal reports, but doing com for the Walk would be the real test. Normally I work into a repeater, but for the Welk we would just be using simplex. It would be a good test of its range.

The day of the Walk we tried to stuff the bike with the automo is place into Chertie's car. I ended up having to band it (that fragile aluminum wire!) to get it to fit. But I simply subset it (gingerly) when we arrived at the storting fine, and it worked okny. Disan, KCSSP, was not control, and she assigned me the tactical call of "Biles One". I liked it -kind of catchy. Being the only bike-mobile been, my job would be to hang out with the main group of walkers, unless

sale eventuence og ot blot

Reform I got underway I waited until most of the walkers had loft, and then I podaled past them as they strong out along the street and adewalk. After passing most of them I pulled over for a while to let them peer me. A few of them called out "Cheeter!" As I podeled by. I continued "leapfrogging" the main pack until I got to the first of three checkpoints, where I stopped and chatted with the home stationed there. Naturally, they were all interested in my bicycle-mobile arrangement, and really liked my J-pole -- both how it nounded on the air and the antenna itself.

Crunching name granty genry I headed up the highill to checkpoint two, which was familiar to one, since I was metioned there last year with Bill, NZID, who was there again this year. I stopped to talk with him a bit, and to let nome of the walkers go by. Diana called mr, and she could not seem to hear me with the J-pole for some reason. I used Sill's rig to respond. Maybe there was some hill between us. I was surprised, though, since I was on low of one of the highest hills around - my legs would attest in that?

I missed the third checkpoint, going right past it the first time, since it was far back from the road. I knew I had



The author at Checkpoint Three with 2000-10-die antenna.

gone too for when on my radio I heard the hame there yelling. "Hey, Bike One, where are you pedaling to in such a herry!". I was paying so much attention to the one traffic that I missed the chackpoint. They also gave me very positive comments on the bike mobile system, and mid that they heard me from all around the course just fine.

After pusing for a picture for posterity I made my way back to the start/finish line, and stopped by Dinne's minivas, the communications have. It had been a good billy workout and I was hangry, so I went in for the complimentary. lunch. (Considering nome of those hills, it was by no meens a free lunch!) I helped Diess with not control duties, and then she gave me a lift home. Again, I had to head my J-pole to fit inside the car. Dying from metal fatigue, the aluminum ground wire broke the next day as I pulled into my high school's parking lot. But I had learned many things from that protestype automon, and it served me well. I fourned that a Jpole is the most practical automas design for my purposes, and also what dimensions work well for mr. And besides that I had a fee ride around the MS Walk souts, and did some public service work at the same time! Rest assured, a second, stronger 3-pole is currently in the planning stages.

-Justin Hugher, KAI ULT Box 5151 North Adams State College North Adams, MA 1247

FLASHI

Starting in January '93 the Mizuko line of HF HT radios and accessories will be imported and retailed by J-COM, POB 194, Ben Lomond, CA 95005. (408) 335-9120. Up to this point, Ned Mountain, WC4X, was importing them exclusively for our members - see Ned's articles on these amusing little ratios in the April and October '92 leaves of this newslatter. Look for J-COM's sile in the various have angazines, and visit their booth at the Dayton Hamvention.

BM's OLDEN DAYS

Editor,

I saw a recent copy of the BMHA NewsLatter and noted that you run a story asking for people to write in if they knew of anybody who operated bicycle-mobile before 1957. Weil I'm your meal

I enclose a disping (much faded!) of a story about me and my bicycle cadio actup that came out is 1950 in the Holland, MI newspaper. In '50 I was a 17 year-old junior at Holland High, and as it said in the newspaper, it was believed that I had "the only two-way bicycle radio in the country". I was consumed by anasteur radio, but the call of WSGCW....still have it, still on the air. But at age 58 I don't ride the bike my more.

I really don't remember what the radio goer was, other than it was WW-II army surplus, which operated on 10 and 6. This stuff was quite plentiful back is the 50's at a dollar a pound....perhaps less! It used an access take in the final, 957 or smoothing like that, and probably delivered a watt to the antenna.

The bike was a Roudenester 26" with balloon tires and a laggage rack on the rear feeder, which supported the power pack. Roadmaster had a next shock support system on the front fork which made it encounted to mount the rig proper. Of course loaded antennas were not "the thing" back in the 50's, so I had to go with a 1/4 wave whip, which grazed overhanging tree branches as I pecialed back and forth to school. (I guoss the tip of the antenna must have been around 11 feet off the ground.)

I was in 7th heaven. Worked California with a 5-9 + almost daily..., and my 4th hour english teacher always excused my tardiness (this was after lunch hour) if I was working the rig. And being a ham beyond being a ham, I really enjoyed the publicity from all the newspaper articles.

I was a very active ham in those days, and continue to be, although now I enjoy the constort of my Lincoln Continental mobile setup or the converted 3rd bedroom of my bome, which has become the shack since the kids are gone.

[it will be interesting to sen if anyone else is able to challenge my "feat" and be the first to go on the air while bicycle-mobile.

--- Chuck Rich, W8OCW 363 Settlers Road Holland, M1 49423



Chuck Rich today in his shack in Hulland, Michigan.



If you should not a they rating a bicycle with a nine-fore minum and turious baces arrapped fore and aft, it's only 17-year-aid Chuck Rich experimenting with his two-way radio. Rich's bicycle radio is believed in he the only one of to kind in the causery. *-Holland MI recompany, 1950.

BMHA NET....ON 20

Brrrr! It's Cold Outside

Is your weather like mine? It's cold! desary! windy! Plus it's dark when I go to work and dark when I come house, all of which keeps me from riding my bike.

Fortunately, Santa came a few months early and brought one of those NordicTrack machines. Doesn't have any whoels but you can use your bicycle waterbottle bottle — you swent a lot — and use your bicycle gloves. WGW, you sure can get a good workout on one of them. It better put me in good shape for the next cycling season. Hopefully is will climinate some of that "ring around the ole waist" if I keep it up.

What I'm trying to say is that the cycling season is over for one, here in the great mid-American icebox. That means it's a good time to check in to the BMHA Net! Those warm-weather excesses are gone.

The BMHA Net still mosts on the Ist and Ird Sundays of each menth at 6000 UTC. We meet on or about 14.253 +/- the QRM. Join us and share some of your experiences and most the gang of good people who are cruzy enough to be the bicycle-mobile hams of America. Happy holidays to all, and CU on the net.

----Mike Mickolaur, NFON, BMHA Net Control 316 E. 32nd St. 5. Sioux Circ. NE 68776

TRAVEL & ADVENTURE

I Love My Daily Commute!

My two-wheeled commetting began as a transportation measurity while I did a major car repeir. As it was June, and a way to get consistent exercise was moded, I missel the opportunity to resurrect a 1971 tooring biles that had fallen into distant (I always felt guilty about that bike sitting idle). After the car was fixed, biking to work was even more fan when done by choice.

Being a perveron scat, I saw the same challenge in refining a 2-M bicycle setup as I did in getting our -- my YL is Cashy, KA1QKD -- HF astup to work reasonably well -- 160-10 in a 3rd floor spartment. (The HF actup works so well I beyon't modified it in a year.)

In retrospect it has been a process of continual refinement and modification, with both the bike and the 2-M setup. I still have some tweaking to do, but that's half the fun!

The Dully Commute

We live about three and a half miles from my workplace and about seven from Cathy's, both in the mane direction. The reads are heavily travelled at commuting times, and are in various states of repair. Since I'm on flexible work time, I usually ride over to her workplace at lunch and back. All told, this makes for about a 15-mile daily sound trip.

Both the bike and the rig take a pounding on this daily commute and, of course, safety is of prime concern. In the refinement process, reliability and case of operation were key criteria.

The Ris

My current setup is an follows: HT clipped to belt that's thick enough to give it a good grip; speaker-solke threaded up through shirt and hanging 3° out of collar within easy reach of right band; earphone or 1/2 stores phones on right ear; dockie antenna for repeater and 5/8 wave for simplex.

The considerations that led me to this arrangement are:

- 1. HT in handlobar bag gets best up, so put HT on bak.
- Roed noise dictates purphone use, because speaker-mike volume is too weak.
- 3. Eurphone in right our ok, because it does not interfere with hearing road truffic.
- 4. 5/8 wave not but quick-disconnect count setup from rig for convenience and to prevent breaking the BNC in the rig if I full or am careless.
- For water resistance, Yestu HT has gaskets around knobshafts and membrane in front of speaker.
- Internal VOX on rig not useful as it will key from road noise even on least assertive setting — and, worse still, VOX would open when I yell FCC-forbidden words at drivers who brush see too close.

In the future I plan to get a boom mile that I can key from the handleburs, similar to what KF6NC described in the last BMRA newaletter — of course now I have to stop transmitting when I need both bands on the handleburs.

The Silve

The new bitter are getting more tempting all the time, but I really like my 21-year-old Austrian touring bike. It is noticeably heavier than the "1993 models", but foot-pounds expended are serobic points that I can use. (Also I would hate to think of how many dollars per pound of weight reduction I would have to spend to suplace my 30 lb. natique.) Is addition I harbor the belief that those steel rims will survive a pothole that would deform alloy rims. A near carrier and panaism are required to carry work clothen, thermos, macks, etc. Oversim brake pads were worth the \$10 a set. Regular (not lightweight) time get fewer flats on glass-strewn reads, and the suff-leak goop that goes inside of the tube is a necessity. Using that stuff I almost never get flats. It works.

Safety

This subject warrants its own section, and is a dailyuse situation, it makes seems to stack the best odds to keep your number from coming up. A HELMET IS A NECESSITY! 1 know of two bicycle commuters who are now endly dead. Neither wore a helmet and both died of head injuries. I never ride without it. EYEGLASSES keep insects, dirt, and mid sir out the oyes, and make a nice mounting place for those sufly Third Eye mar-view mirrors, which take some getting used to, but then become indispensable. LED STROBE LIGHTS, front and rear, are tens or hundreds of times more visible than just lights or reflectness. The human eye is vastly more sensitive to changing plates or motion than it is to steady states. I just added the front strobe after my headlight was not seen by a truck turning into me. LIGHT-COLORED CLOTHING could paye your life if you fall in the dark. REFLECTIVE TAPE on the rim tops, podals, crank arms, forks, and frame really stands out. Again you are capitalizing on the fact that the human eye and pervous system is highly sensitive to motion.

Commuting by bicycle is health-giving, economical, non-polluting, sometimes exciting, but never dull. I love it.

- Glenn Thatheimer, NI GMB 26 Kenmar Dr. #257 Billerico, MA 01821

CONTACT

This is the 'I-need-help' department of the NewsLatter, the object being to establish a clearing house where our readers can exchange information on a one-on-one basis. Send in your request — we'll run it.

I'm looking for companions to join see is cycling to this year's Dayton HamVention, which is set for the weekend of April 23-25. We'll insve Ana Arbor, MI, on the Monday or Tuesday before the event. It's about a 150-mile, 2 or 3-day trip, depending on the wind and weather. With April's blossoms and Ohio's alcely paved backroads, it should be a very pleasant trip. Call or write me soon and we'll work out the details.

----Russ Dwarshuls, KB8U (313) 747-8391 427 Barber Ann Arbor, MI 48103

LETTERS

Door Hartley.

Got a big trick out of the cover picture on the July issue of the NewsLutter - the one that shows us at the start of the lat Annual BMHA Rally Rido. It should have been called the Underwater Rally Ridel Maybe the sen will thine on we at Dayton must April.

My 1992 effort in the Michigan National 24 Hour Challenge tram't so bot. I twisted my right knoo at check point #3 - 93 miles - and it got so were that I dropped out after 139 miles. Next your I will take spother shot at that 300 mile murk.

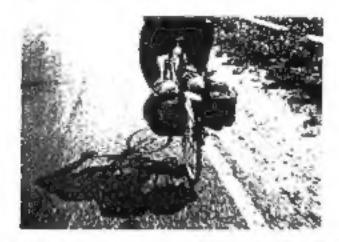
The MS-150 in June proved to be a very nice ride. I carried my HT and used a 5/8 wave autones mounted on the rear rack. Quite a few people on the ride commented about how impressed they were with the suguragen information that was being pussed on the not.

Every time I came back to my bike from making a trip to the outhouse there was a crowd gathered around my bike Estening to my handlebar bag (HII) as it gave out information about the page, where the front of the group was, and how far back the stranglers were. Of nourse I took the opportunity to describe Amateur Radio and applain how may it is to get a

Best wishes and I'll see you at the Dayton HamVention in the spring.

-Gale Scholten, NSAVO 8530 Peach Ridge NW Sparta, MI 49345

PS. I thought you might like to see a picture of a set of your Touring Cyclest Pannium in action here in Michigan. These belong to Norm Sevnasma of Grand Rapids, Mi, who really likes his long, colo rides. What you see in the picture is all that he carries on a 2 or 3 day ride. This picture was taken on the first day of an overnighter, just a day after Norm had just completed a 720-mile, 7-day ride in Wisconsin.



From 1970 to '84 year relies; run a company in Buchler called The Touring Cyclist Slop. Assess other things, we designed and unarefactured bicycle truring lags, which were said by must make to the must set applies in the recent and abroad. The very proud to see that my TC Premiers are still going strong eight years ofter the closed the luminous and retired. -- Bit.

RMHA NEWSLETTER

EDITOR: Hartley Alley, NAOA

BOARD OF ADVISORS:

Russell Dwarshais, KBSU Lon Koppl, KD0RC Bob Pulhuj, KB8ZJ Mike Nickolaus, NPON Chairman and Founder: Hartley Alley, NAOA

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We welcome articles, suggestions, announcements, photos, artwork --- anything pertaining to bicycling while operating an amateur radio, or vice versa.

Submitted material will be edited for clarity and, if necessary, shorteand to fit space constraints. Material should be submitted before Mar 1, June 1, Sept 1, or Dec 1 for inclusion in the ensuing issue.

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ABOUT BMHA

For the information of our first-time readers.

Bicycle Mobile Hams of America got its start when a "Stray" in the June '89 QST magazine asked to "get in touch with hams who operate their radius while bicycle-mobile, or while in any other human-powered conveyance", signed by Twenty five hams responded, filled Hardey Alley, NAGA. not questionneices, and received a summary of the collected data.

Is April of '90 we had our first BMHA Forest at the Dayton HamVention. We played to a packed house, overflowed the room, and added 54 names to our mailing list. Our '91 and '92 forum were spain well-attended, and now BMHA is established as a "regular" at this world-renowned

This is the tenth issue of our quarterly newsletter. which has become the clearing house for the exchange of infoand ideas for the hams who go no the air from their bicycles. Since the last issue of this newsletter we have added over 25 new members. The total paid membership now stands at 220, with members in 36 states, and four countries.

BMHA membership includes; bi-weekly not on 20 meters, annual meeting and Forum at the Dayton HamVention, membership directory, packet list, and the BMHA NewsLatter, which has articles on bake trips, antermas, other gear, operating tips, etc. The membership application blank is on the next to but page.

ANTENNAS

Low-Cost Multi-Band Antenna for HF

For the past year I have been experimenting with various types of HF entennes on the biles. My present favorite is the modified Ham Stick, a commercially available single-band belically wound whip about 8 feet tail. Even if you are only interested in a single band, this antenna is hard to bust, especially for the cost — trader 20 buckel. This agreess really gets out. Today at lunchtime I worked France — from the bike!

The only difference between the Ham Sticks for the various bands is the number of turns on the leading coil. If you desire multi-hand operation, it is possible to tap the coil for the frequencies of interest. The method for doing this is purely empirical, and it requires a lot of time — and a lot of beer.

Start with a 75 meter Ham Stick, because it contains the most wire. In brief, you wind the coil until it's reseasant lower than the desired frequency, and then you remove about 1/2 nam at a time until it's resonant at the desired frequency. You solder a busane jack at that point, and keep winding for the next band.

My present multiband Ham Stick is tapped for 40, 20, 17, and 15 meters — I carry in my handlebar bag separate Missibo radius for each of these bands. The bename plug arrangement makes changing bands a snap, a conserver which I have been known to do while pedaling — but this is very amafe, very stopid, and not recommended! By placing a big plastic flag on the very top (about ten feet off the ground) of the Hamstick I've made it serve double duty as a very visible and effective safety flagpole.

Step-by-step Directions

 Purchase a 75 meter Ham Stick automa at a hamfast or order direct from Lakeview Company (see ads in CQ) 3620-9A Whitehall Rd, Anderson SC 29624, Phone 1-800-226-6990.

The part number is 9175, price is \$17.95, plus \$4.75 S&H... This antenns will have more than enough wire to construct a multi-head Ham Stick for 15 through 40 maters.

- Carefully remove the heat shrink and throw it away. Carefully remove all of the wire and save it.
- 3. You will be removing and installing the top whip section many times during this project. So be sure to always get it back at the EXACT sums dimension (43 1/2" mark it with tape) and do not lose those little set acrews!
- 4. Wind the bottom section on the notation first. This is the section from the very bottom to the point where the 40 meter tap will be. This is a locally wound section, and the exact number of turns or specing is not critical. Tape the wire tightly at this point, and strip the insulation.
- Make a temporary jumper to go from this point in a loosely-wound mamer to the eventual point where the 15M tap will be. (Approximately 2 turns with 13" of bookup wire.)
- 6. Referring to the drawing, tape the top of the coil where you start winding, and deliberately overwind the 15 meter section by 1/4 inch or so. Wrap tape at this point, and cut the wire. Carefully scrape the insulation from the wire at this point. Loosely wind the jumper wire about 2 turns from the bottom and connect it to the 15M tap position. BE SURE TO WIND ALL COILS IN THE SAME DIRECTION!
- Now for the creative pert...! Attach the antenna to your bite...(The following steps are best done out of sight of wife, neighbors, etc. as it looks a little strange.)

The ideal device for this job is an MFI SWR analyzer. Try to borrow one. DO NOT opened to your HF station in the house or in the car. — the results will NOT be the same. I tried it!

8. Measure the SWR. The antenna should be resented lower than the phone portion of 15M. For optimum accuracy, measure while on the bike and pedaling — a step sure to answe your neighbors!

9. Remove one turn at a time and recessed the jumper and remeasure until the SWR is lowest at the desired frequency. This is the most tedious part of the job, but the most important. Once satisfied with the 15M tap, tightly tape the entire 15M section. Solder the beginning of the next section and begin to wind it.

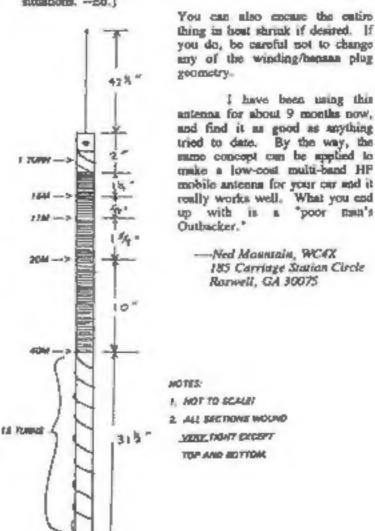
Install a became jack (Radio Shack #274-725) for the 15M tap and angle it downward.

11. Overwind the 17M section and repeat step 9. The lower in frequency you go, the more important it is to get on the bike while measuring, as that big bag of sait water — your body! — becomes a significant part of the radiating system.

12. Keep repeating this until you have all windings and banaca jacks installed.

13. Double-check the SWR on all bands after you have all taps installed.

14. Carefully apply electrical tape to the entire unterna. The red tape from Radio Shack looks really good. (Use white tape, if you want the automas to show up in most photographic situations. —Ed.)



AME FEREN

GEAR.

Two Hams - Two Bands - One Bike

A bile third forced our hand, but it was my 14 yearold son's idea to get a tandem bits to replace his stolen "single" bits and thus improve communications between us on long rides. Randy, N6WMC, picked out the tandem, a 21speed touring model from Riles Nashbur, and added a cyclecomputer for each position.

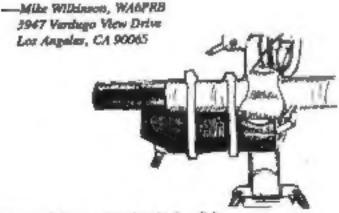
For some reason I was under the delusion that I wouldn't have enough to do steering, shifting and braking over 300 pounds of live load — so why not add here radio? If you need any further thoughts of just how far off base I was, just ask my wife Suzie (KC6TDW) for her description of the first ride. I think the still can vividly recount the parked care jumping in front of our path as we genely tried to balance the bike and steer, while noting that it might have been a very good idea to tighten down the rear handleburs BEFGRE venturing out into the street. In another year or two she may be able to get through the story without exploding into laughter.

The details. We set up push-to-talk buttons on each of our handlebers, running the wires to the HT nestled in a small frame bag just in front of the stoker's (run') seet. Randy, the stoker, is able to take the HT (dual-band Yacsu FT-470) out of the frame bag to change channels or use as suspende while we are riding. The PTT buttons and the carphone wiring is in parallel — one goes to each rider and attaches to a converted Unex lightweight telephone headset attached to the bike belinets, for hands-free operation.

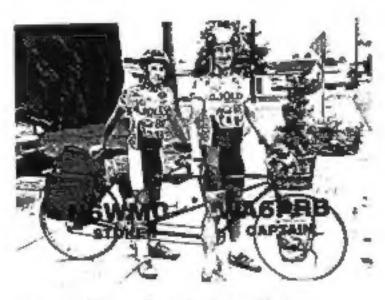
The antenna is a Kenwood dual-hand MA-4000A attached to a metal bracket accurely grounded to the rear rack for a reasonable ground plane.

We have taken this rig on a century ride as well as a 329-mile five-day excursion. For the longer trips we replace the internal bettery with a 12 volt, 5 acopera-hour lead acid battery. This gives a full day of talking and listening although the weight is a little much for the shorter jaunts. Most other riders assume that the headest is just an intercent, but they are intrigued to find out it is here radio.

I would like to hear from myone else who is riding a tandem with ham radio. I will reply to all messages sent to my parket address (the mail works tool): WASPRB @ K6VE.#SOCA.USA.NA.



Push-so-talk button rigged under handlebar.



Capsula and every ready to go tandem-mobiling.

Please complete and return to: MHA, Box 4009, Boulder, CO 80.		Date
Name	Call	License Class_
Address		
City, State		Zip
Individual: \$10 per year (Us or CAN) (Pay by check in US dollars or		

QSL CORNER

In this space we feature QSL cerels that have a bicycle-mobile mosif. Send yours in. We'll run it.







KB8U Russell Dwarshuis 427 Barber Ann Arbor, MI 48103

BMHA NEWSLETTER

Bicycle Mobile Hams of America PO Box 4009 Boulder, CO 80306

Address Correction Requested

First Class Mall

NEW MEMBERS

We're pleased to add these permes to our Membership List:

Salvedor Accate-Guerra, POB 5273, Aguntillo PR 02605-5273
Craig Adama, KD6609Cl, 15090 Bul Baron Dr., San Jose CA 95134
Kavig Anderson, 59 Bone Pl, Chrumien Hills II. 60514
Jack Applie, MOOTY, 672 Manafield Dr., Part Collins CO 80525
Reymond V Bishop, MPOYQ, 113 E. Bhendids 642, Anteres KS 6700
Devid M Back, WB30CL, 20-R Ridge Rd., Generals MC 20770
Ros Bossquet, KD4LVM, 211 Seniors Mill Lane, Durham MC 27713
Philip L Brown, WE7A, 760 Rosed Ct., Ziconville IN 46077
Josf Column, NSED1, 49 Park Av, Harrison, NY 10528
Michale Sickholt, MENTY, 9677 Deity Lane, Deviar Mil 48130

Brien Piehle, N9QGQ, 22105 Auton Rd, Scoth Band DV 46628
Disk Frederburg, KM46K, 104 Contin Manor Ct, Gurum NC 27529
Deve Gerbig, WB9MZL, 3504 Treasunt Way, Bloomington 3N 47401
Lee Green, MD, KP8MO, 9677 Dulay Lann, Duxler Mt 48130
Eart F Hoyer, KEDYO, 5330 Winners, St Lends MO 63109
Melazie Kramere, KD6KCCS, 1971 Degreend Dr, Sama Rom CA 95403
Steve Kramere, KD6KCCS, 1971 Degreend Dr, Sama Rom CA 95403
Steve Kramere, KD6KCCT, 1971 Degreend Dr, Sama Rom CA 95403
Rochard G Leebkn, 1440 Highland View Ct, Loe Alone CA 94024
Bernard Malous III, 8086 Jackson Sq Pt, Streweport LA 71115
Fin Moyer, 400 West Main St, Louisville ECF 40202

Res NoBec, KUEN, POB 23, Rechester, MN 15903
Richted O Poirier, KAONYG, 527 Tyler St FB, Topeka K6 66603
Penni Powell, KD6LNE, 2334 Holdan Ct, Contac CA 93443
Peter Richards, 470 University Av, Boulder CO 60302
Randy Stout, KP0NF, 1801 Mandowales Dr, Fort Collins CO 60525
Gene Takor, KB7QG, 2578 N 2000 W, Farr West UT 64404
Tony Wallace, VEITNW, 196 Homewood, Hamilton ON LBP 2M5 CAN
Bob Walle, AASPD, 1808 Indian, Houseon TX 77009

With truditional ham friendliness, make contact with these new members, welcome them to BMHA, and help them with any problems they might have.